

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.**

Application Serial Number: 10/019,198 B  
Source: JFW16  
Date Processed by STIC: 5-26-06

***ENTERED***



IFW16

**RAW SEQUENCE LISTING**  
**PATENT APPLICATION: US/10/019,198B**

**DATE: 05/26/2006**  
**TIME: 12:10:21**

**Input Set : A:\9013-42.ST25.TXT**  
**Output Set: N:\CRF4\05262006\J019198B.raw**

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3 <110> APPLICANT: Proud, Christopher Gregory
4      Herbert, Terrence Patrick
5      Lane, David Philip
6      Fahraeus, Robin
8 <120> TITLE OF INVENTION: USE OF PEPTIDES
10 <130> FILE REFERENCE: 9013-42
12 <140> CURRENT APPLICATION NUMBER: US 10/019,198B
C--> 13 <141> CURRENT FILING DATE: 2002-06-19
15 <150> PRIOR APPLICATION NUMBER: PCT/GB00/02414
16 <151> PRIOR FILING DATE: 2000-09-18
18 <150> PRIOR APPLICATION NUMBER: GB 9914480.0
19 <151> PRIOR FILING DATE: 1999-06-21
21 <160> NUMBER OF SEQ ID NOS: 22
23 <170> SOFTWARE: PatentIn version 3.3
25 <210> SEQ ID NO: 1
26 <211> LENGTH: 12
27 <212> TYPE: PRT
28 <213> ORGANISM: Homo sapiens
30 <400> SEQUENCE: 1
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33 1           5           10
36 <210> SEQ ID NO: 2
37 <211> LENGTH: 12
38 <212> TYPE: PRT
39 <213> ORGANISM: Triticum aestivum
41 <400> SEQUENCE: 2
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44 1           5           10
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48 <211> LENGTH: 10
49 <212> TYPE: PRT
50 <213> ORGANISM: Homo sapiens
53 <220> FEATURE:
54 <221> NAME/KEY: MISC_FEATURE
55 <222> LOCATION: (10)..(10)
56 <223> OTHER INFORMATION: Xaa can be Leu or Met
58 <400> SEQUENCE: 3
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61 1           5           10
64 <210> SEQ ID NO: 4
65 <211> LENGTH: 7
66 <212> TYPE: PRT
67 <213> ORGANISM: Artificial

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Input Set : A:\9013-42.ST25.TXT  
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69 <220> FEATURE:  
70 <223> OTHER INFORMATION: Consensus peptide  
73 <220> FEATURE:  
74 <221> NAME/KEY: misc\_feature  
75 <222> LOCATION: (2)..(5)  
76 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid  
78 <220> FEATURE:  
79 <221> NAME/KEY: MISC\_FEATURE  
80 <222> LOCATION: (7)..(7)  
81 <223> OTHER INFORMATION: Xaa can be Leu, Met or Phe  
83 <400> SEQUENCE: 4  
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86 1 5  
89 <210> SEQ ID NO: 5  
90 <211> LENGTH: 10  
91 <212> TYPE: PRT  
92 <213> ORGANISM: Artificial  
94 <220> FEATURE:  
95 <223> OTHER INFORMATION: Consensus peptide  
98 <220> FEATURE:  
99 <221> NAME/KEY: MISC\_FEATURE  
100 <222> LOCATION: (1)..(1)  
101 <223> OTHER INFORMATION: Xaa can be Lys or Arg  
103 <220> FEATURE:  
104 <221> NAME/KEY: misc\_feature  
105 <222> LOCATION: (2)..(3)  
106 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid  
108 <220> FEATURE:  
109 <221> NAME/KEY: misc\_feature  
110 <222> LOCATION: (5)..(7)  
111 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid  
113 <220> FEATURE:  
114 <221> NAME/KEY: MISC\_FEATURE  
115 <222> LOCATION: (8)..(8)  
116 <223> OTHER INFORMATION: Xaa can be Phe or Gln  
118 <220> FEATURE:  
119 <221> NAME/KEY: MISC\_FEATURE  
120 <222> LOCATION: (10)..(10)  
121 <223> OTHER INFORMATION: Xaa can be Leu or Met  
123 <400> SEQUENCE: 5  
W--> 125 Xaa Xaa Xaa Tyr Xaa Xaa Xaa Xaa Leu Xaa  
126 1 5 10  
129 <210> SEQ ID NO: 6  
130 <211> LENGTH: 16  
131 <212> TYPE: PRT  
132 <213> ORGANISM: Artificial  
134 <220> FEATURE:  
135 <223> OTHER INFORMATION: Penetratin: membrane translocation peptide  
137 <400> SEQUENCE: 6

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139 Arg Gln Ile Lys Ile Trp Phe Gln Asn Arg Arg Met Lys Trp Lys Lys  
140 1 5 10 15  
143 <210> SEQ ID NO: 7  
144 <211> LENGTH: 30  
145 <212> TYPE: PRT  
146 <213> ORGANISM: Homo sapiens  
148 <400> SEQUENCE: 7  
150 Lys Lys Arg Tyr Asp Arg Glu Phe Leu Leu Gly Phe Ala Ala Arg Gln  
151 1 5 10 15  
154 Ile Lys Ile Trp Phe Gln Asn Arg Arg Met Lys Trp Lys Lys  
155 20 25 30  
158 <210> SEQ ID NO: 8  
159 <211> LENGTH: 30  
160 <212> TYPE: PRT  
161 <213> ORGANISM: Artificial  
163 <220> FEATURE:  
164 <223> OTHER INFORMATION: Scrambled eIF4G sequence  
166 <400> SEQUENCE: 8  
168 Phe Asp Leu Lys Phe Ala Leu Gly Arg Tyr Arg Ala Glu Lys Arg Gln  
169 1 5 10 15  
172 Ile Lys Ile Trp Phe Gln Asn Arg Arg Met Lys Trp Lys Lys  
173 20 25 30  
176 <210> SEQ ID NO: 9  
177 <211> LENGTH: 12  
178 <212> TYPE: PRT  
179 <213> ORGANISM: Saccharomyces cerevisiae  
181 <400> SEQUENCE: 9  
183 Lys Tyr Thr Tyr Gly Pro Thr Phe Leu Leu Gln Phe  
184 1 5 10  
187 <210> SEQ ID NO: 10  
188 <211> LENGTH: 12  
189 <212> TYPE: PRT  
190 <213> ORGANISM: Homo sapiens  
192 <400> SEQUENCE: 10  
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195 1 5 10  
198 <210> SEQ ID NO: 11  
199 <211> LENGTH: 12  
200 <212> TYPE: PRT  
201 <213> ORGANISM: Homo sapiens  
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206 1 5 10  
209 <210> SEQ ID NO: 12  
210 <211> LENGTH: 14  
211 <212> TYPE: PRT  
212 <213> ORGANISM: Homo sapiens  
214 <400> SEQUENCE: 12  
216 Lys Lys Arg Tyr Asp Arg Glu Phe Leu Leu Gly Phe Ala Ala

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Input Set : A:\9013-42.ST25.TXT  
Output Set: N:\CRF4\05262006\J019198B.raw

217 1 5 10  
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221 <211> LENGTH: 14  
222 <212> TYPE: PRT  
223 <213> ORGANISM: Artificial  
225 <220> FEATURE:  
226 <223> OTHER INFORMATION: Mutagenized human hu 4G sequence  
228 <400> SEQUENCE: 13  
230 Lys Lys Arg Ala Asp Arg Glu Phe Ala Ala Gly Phe Ala Ala  
231 1 5 10  
234 <210> SEQ ID NO: 14  
235 <211> LENGTH: 14  
236 <212> TYPE: PRT  
237 <213> ORGANISM: Triticum aestivum  
239 <400> SEQUENCE: 14  
241 Arg Val Arg Tyr Ser Arg Asp Gln Leu Leu Asp Leu Ala Ala  
242 1 5 10  
245 <210> SEQ ID NO: 15  
246 <211> LENGTH: 14  
247 <212> TYPE: PRT  
248 <213> ORGANISM: Artificial  
250 <220> FEATURE:  
251 <223> OTHER INFORMATION: Mutagenized wheat hu 4G sequence  
253 <400> SEQUENCE: 15  
255 Arg Val Arg Ala Ser Arg Asp Gln Ala Ala Asp Leu Ala Ala  
256 1 5 10  
259 <210> SEQ ID NO: 16  
260 <211> LENGTH: 14  
261 <212> TYPE: PRT  
262 <213> ORGANISM: Artificial  
264 <220> FEATURE:  
265 <223> OTHER INFORMATION: Scrambled hu 4G sequence  
267 <400> SEQUENCE: 16  
269 Phe Asp Leu Lys Phe Ala Leu Gly Arg Tyr Arg Ala Glu Lys  
270 1 5 10  
273 <210> SEQ ID NO: 17  
274 <211> LENGTH: 12  
275 <212> TYPE: PRT  
276 <213> ORGANISM: Artificial  
278 <220> FEATURE:  
279 <223> OTHER INFORMATION: Mutagenized human eIF4G peptide  
281 <400> SEQUENCE: 17  
283 Lys Lys Arg Ala Asp Arg Glu Phe Ala Ala Gly Phe  
284 1 5 10  
287 <210> SEQ ID NO: 18  
288 <211> LENGTH: 12  
289 <212> TYPE: PRT  
290 <213> ORGANISM: Artificial  
292 <220> FEATURE:

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PATENT APPLICATION: US/10/019,198B

DATE: 05/26/2006

TIME: 12:10:22

Input Set : A:\9013-42.ST25.TXT

Output Set: N:\CRF4\05262006\J019198B.raw

293 <223> OTHER INFORMATION: Mutagenized human eIF4G peptide  
295 <400> SEQUENCE: 18  
297 Lys Lys Arg Ala Asp Arg Glu Phe Leu Leu Gly Phe  
298 1 5 10  
301 <210> SEQ ID NO: 19  
302 <211> LENGTH: 12  
303 <212> TYPE: PRT  
304 <213> ORGANISM: Artificial  
306 <220> FEATURE:  
307 <223> OTHER INFORMATION: Mutagenized human eIF4G peptide  
309 <400> SEQUENCE: 19  
311 Lys Lys Arg Tyr Asp Arg Glu Phe Ala Leu Gly Phe  
312 1 5 10  
315 <210> SEQ ID NO: 20  
316 <211> LENGTH: 12  
317 <212> TYPE: PRT  
318 <213> ORGANISM: Artificial  
320 <220> FEATURE:  
321 <223> OTHER INFORMATION: Mutagenized wheat eIF4G peptide  
323 <400> SEQUENCE: 20  
325 Arg Val Arg Ala Ser Arg Asp Gln Ala Ala Asp Leu  
326 1 5 10  
329 <210> SEQ ID NO: 21  
330 <211> LENGTH: 12  
331 <212> TYPE: PRT  
332 <213> ORGANISM: Artificial  
334 <220> FEATURE:  
335 <223> OTHER INFORMATION: Mutagenized human 4E-BP2 peptide  
337 <400> SEQUENCE: 21  
339 Arg Ile Ile Ala Asp Arg Lys Phe Ala Ala Asp Arg  
340 1 5 10  
343 <210> SEQ ID NO: 22  
344 <211> LENGTH: 12  
345 <212> TYPE: PRT  
346 <213> ORGANISM: Artificial  
348 <220> FEATURE:  
349 <223> OTHER INFORMATION: Mutagenized human 4E-BP1 peptide  
351 <400> SEQUENCE: 22  
353 Arg Ile Ile Ala Asp Arg Lys Phe Ala Ala Glu Cys  
354 1 5 10

RAW SEQUENCE LISTING ERROR SUMMARY                    DATE: 05/26/2006  
PATENT APPLICATION: US/10/019,198B                    TIME: 12:10:23

Input Set : A:\9013-42.ST25.TXT  
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; Xaa Pos. 10

Seq#:4; Xaa Pos. 2,3,4,5,7

Seq#:5; Xaa Pos. 1,2,3,5,6,7,8,10

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:4,5,6,8,13,15,16,17,18,19,20,21,22

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Input Set : A:\9013-42.ST25.TXT  
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L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:60 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0  
L:85 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0  
L:125 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0